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## WHAT IS CLAIMED IS

- 1. A method for calibrating illumination of a back-light module of an image scanning device by employing a longitudinally-extending calibration zone to obtain a back-light source with a uniform distribution of illumination in a longitudinal direction of the image scanning device, comprising the following steps:
  - (a) activating the back-light module to form a light source and project light onto an optical scanning module of the image scanning device;
  - (b) driving the optical scanning module in the longitudinal direction;
  - (c) obtaining a signal representing illumination of at least one selected pixel of the calibration zone in the longitudinal direction with the optical scanning module;
  - (d) comparing the signal with a pre-set reference to obtain a comparison result and manipulating the comparison result to determine a calibration parameter; and
  - (e) calibrating the illumination of an image with the calibration parameters in scanning an original document.
- 20 2. The method as claimed in Claim 1, wherein the illumination signal of each selected pixel comprises signals associated with red, green and blue colors.
  - 3. The method as claimed in Claim 1, wherein the calibration parameter comprises parameters for red, green and blue colors.
  - 4. The method as claimed in Claim 1, wherein the selected pixels comprise all pixels of the calibration zone in the longitudinal direction.
- 5. The method as claimed in Claim 1, wherein the selected pixels comprise pixels of every given number of pixels of the calibration zone in the longitudinal direction.

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- 6. The method as claimed in Claim 1, wherein the reference is stored in a memory unit of the image scanning device in advance.
- 7. A back-light module for an image scanning device comprising: a casing having an open bottom;
  - tubular lighting elements;
  - a light guide plate arranged between the lighting elements for spreading light from the lighting elements over a surface and projecting the light from the surface; and
  - a frosted light-transmissive plate attached to the open bottom of the casing, light from the light guide plate transmitted through the frosted plate for being projected to a document supporting plate surface of the image scanning device.
- 8. The back-light module as claimed in Claim 7, wherein the frosted plate comprises a frosted board made of acrylic material.